

**V.M.G.R.R SRI SARADA SAKTHI MAT. HR. SEC. SCHOOL****STD: XII****COMPUTER SCIENCE****UNIT TEST NO. 1****PORTION: 2 MARKS - L.1,2,3****MARKS: 70****I. CHOOSE THE BEST ANSWER:****35 x 1 = 35**

1. The functions which cause side effects to the arguments passed are called ____
a) impure function b) Partial Functions c) Dynamic Functions d) Pure functions
2. A function definition which call itself ____
a) Pure function b) Impure function c) Normal function d) Recursive function
3. Which of the following is constructed by placing expressions within square brackets?
a) Tuples b) Lists c) Classes d) quadrats
4. ADT can be implemented using
a) singly linked list b) doubly linked list c) either A or B d) neither A nor B
5. The members that are accessible from within the class and are also available to its subclasses is called
a) Public members b) Protected members c) Secured members d) Private member
6. Which are loaded as soon as the library files are imported to the program?
a) Built - in scope b) Enclosed scope c) Global scope d) Local scope
7. In dynamic programming, the technique of storing the previously calculated values is called?
a) Saving value property b) Storing value property c) Memorization d) Mapping
8. This is a theoretical performance analysis of an algorithm.
a) priori estimates b) posteriori testing c) space factor d) time factor
9. Which operator is also called as Conditional operator?
a) Ternary b) Relational c) Logical d) Assignment
10. The floor division operator in Python.
a) / b) % c) %% d) //
11. Which amongst this is not a jump statement?
a) for b) pass c) continue d) break
12. Which is not a jump statement?
a) for b) goto c) continue d) break
13. Which of the following keyword is used to define the function testpython():?
a) define b) pass c) def d) while
14. Which of the following special character is used to define variable length arguments?
a) & b) \$ c) * d) #
15. The subscript of a string may be:
a) Positive b) Negative c) Both (a) and (b) d) Either (a) or (b)
16. _____ is a data type in python, which is used to handle array of characters.
a) Character b) String c) Text d) None of these
17. Let setA={3,6,9}, setB={1,3,9}. What will be the result of the following snippet? print (set A/ set B)
a) {3,6,9,1,3,9} b) {3,9} c) {1} d) {1,3,6,9}
18. The keys in Python, dictionary is specified by
a) = b) ; c) + d) :
19. The process of creating an object is called as:
a) Constructor b) Destructor c) Initialize d) Instantiation
20. The function defined inside a class is called as _

- a) Attribute b) parameter c) arguments d) Methods
21. Who developed ER model?
a) Chen b) EF Codd c) Chend d) Chand
22. Which of the following is example of RDBMS?
a) SQL server b) Oracle c) Maria DB d) All of these
23. The clause used to sort data in a database
a) SORT BY b) ORDER BY c) GROUP BY d) SELECT
24. CRUD means
a) Construct, Read, Update and Delete b) Create, Read, Update and Delete
c) Create, Retrieve, Use and Delete d) Create, Read, Update and Document
25. Making some changes in the data of the existing file or adding more data is called
a) Editing b) Appending c) Modification d) Alteration
26. The python file mode opens a file for exclusive creation: (PTA - 3)
a) w b) x c) b d) a
27. What does __name__ contains?
a) c++ filename b) main() name c) python filename d) os module name
28. GCC means
a) GNU C Compiler b) G++ C Compiler c) Good C Compiler d) GNU C Container
29. Which of the following clause avoid the duplicate?
a) Distinct b) Remove c) Where d) GroupBy
30. Python has a native library for _
a) Oracle b) DBMS c) MySQL d) SQLite
31. Which key is used to run the module?
a) F6 b) F4 c) F3 d) F5
32. Which is the graphical representation of information and data?
a) Data Visualization b) Matplotlib c) Dashboards d) Infographics
33. Which plot the width of the bars may or may not be same?
a) Line b) Bar c) Pie d) Histograms
34. Which method uses the SQL command to get all the data from the table?
a) get b) select c) execute d) Query
35. Which of the following is not a scripting language?
a) Ruby b) DBMS c) Perl d) JavaScript

II. ANSWER THE FOLLOWING:

10 X 2 = 20

1. What is a subroutine?
2. Differentiate interface and implementation.
3. Which of the following is a normal function definition and which recursive function definition is

i) let rec sum x y:

return x + y

ii) let disp :

print „welcome“

iii) let rec sum num:

if (num!=0) then return num + sum (num-1)

else

4. What is abstract data type?
5. Differentiate constructors and selectors.
6. What is a Tuple? Give an example.
7. What is a scope?
8. What is mapping?
9. How Python represents the private and protected Access specifiers?
10. Why scope should be used for variable. State the reason?

III. ANSWER THE FOLLOWING:

3 X 5 = 15

1. Explain with example Pure and impure functions.
2. What is a List? Why List can be called as Pairs? Explain with suitable example.
3. Write any five benefits in using modular programming.

**V.M.G.R.R SRI SARADA SAKTHI MAT. HR. SEC. SCHOOL****STD: XII****COMPUTER SCIENCE****UNIT TEST NO. 2****PORTION: 2 MARKS - L. 4, 5, 6****MARKS: 70****I. CHOOSE THE BEST ANSWER:****35 x 1 = 35**

1. Which of the following is a unit of code that is often defined within a greater code structure?
a) Subroutines b) Function c) Files d) Modules
2. Which of the following defines what an object can do?
a) Operating System b) Compiler c) Interface d) Interpreter
3. Which of the following functions that retrieve information from the data type?
a) Constructors b) Selectors c) recursive d) Nested
4. Which of the following is a compound structure?
a) Pair b) Triplet c) single d) quadrat
5. The process of binding a variable name with an object is called
a) Scope b) Mapping c) late binding d) early binding
6. Which of the following security technique that regulates who can use resources in a computing environment?
a) Password b) Authentication c) Access control d) Certification
7. From the following sorting algorithms which algorithm needs the minimum number of swaps?
a) Bubble sort b) Quick sort c) Merge sort d) Selection sort
8. Time complexity of bubble sort in best case is
a) $O(n)$ b) $O(\log n)$ c) $O(n^2)$ d) $O(n \log n)^2$
9. The Python prompt indicates that Interpreter is ready to accept instruction.
a) `>>>` b) `<<<` c) `#` d) `<<`
10. Which of the following is not a Keyword in Python?
a) break b) while c) continue d) operators
11. elif can be considered to be abbreviation of
a) nested if b) if.. else c) else if d) if..elif
12. Which amongst this is not a jump statement?
a) for b) pass c) continue d) break
13. A function which calls itself is called as
a) Built-in b) Recursion c) Lambda d) return
14. In which arguments the correct positional order is passed to a function?
a) Required b) Keyword c) Default d) Variable - length
15. What will be the output of the following code?
`str1="Chennai Schools"`
`str1[7]="-"`
a) Chennai-Schools b) Chenna-School c) Type error d) Chennai
16. What is stride?
a) index value of slide operation b) first argument of slice operation
c) second argument of slice operation d) third argument of slice operation
17. Let `list1 = [2,4,6,8,10]`, then `print(List1[-2])` will result in
a) 10 b) 8 c) 4 d) 6

18. What will be the result of the following Python code?

```
S=[x**2 for x in range(5)]
```

```
Print(S)
```

- a) [0,1,2,4,5] b) [0,1,4,9,16] c) [0,1,4,9,16,25] d) [1,4,9,16,25]

19. Functions defined inside a class:

- a) Functions b) Module c) Methods d) section

20. Which of the following class declaration is correct?

- a) class class__name b) class class__name <> c) class class __name : d) class class __name[]

21. A table is known as

- a) tuple b) attribute c) relation d) entity

22. Which of the following is an RDBMS?

- a) Dbase b) Foxpro c) Microsoft Access d) SQLite

23. Which command lets to change the structure of the table?

- a) SELECT b) ORDER BY c) MODIFY d) ALTER

24. The expansion of CRLF is

- a) Control Return and Line Feed b) Carriage Return and Form Feed
c) Control Router and Line Feed d) Carriage Return and Line Feed

25. What is the output of the following program?

```
import csv
```

```
d=csv.reader(open('c:\PYPRG\ch13\city.csv'))next (d)
```

```
for row in d:
```

```
print(row)
```

if the file called "city.csv" contain the following details

chennai, mylapore

mumbai, andheri

- a) chennai,mylapore b) mumbai, andheri
c) chennai,mumbai d) chennai, mylapore mumbai, andheri

26. Importing C++ program in a Python program is called

- a) wrapping b) Downloading c) Interconnecting d) Parsing

27. getopt () will return an empty array if there is no error in splitting strings to

- a) argv variable b) opt variable c) args variable d) ifile variable

28. SQLite falls under which database system?

- a) Flat File database system b) Relational Database system
c) Hierarchical database system d) Object oriented database system

29. The function that returns the largest value of the selected column is

- a) MAX () b) LARGE c) HIGH () d) MAXIMUM ()

30. Which key is used to run the module?

- a) F6 b) F4 c) F3 d) F5

31. Identify the impure function from the following.

- a) sin () b) cos () c) strlen () d) random ()

32. A sequence of immutable objects is called _____

- a) Built in b) List c) Tuple d) Derived data

33. The kind of scope of the variable 'a' used in the Pseudo code given below.

```
Disp ( ):
```

```
a:=7
```

```
print a
```

```
Disp ( )
```

- a) local b) global c) Enclosed d) Built – in

34. This is a theoretical performance analysis of an algorithm.

- a) priori estimates b) posteriori testing c) space factor d) time factor

35. The multiline comments will be enclosed within a set of _____

- a) / b) # c) \$ d) &

1. What is an Algorithm?
2. Define Pseudo code.
3. What is searching? Write its types.
4. Write short notes on Tokens.
5. What is a literal? Explain the types of literals ?
6. Write short notes on Exponent data?
7. List the control structures in Python.
8. Write note on break statement.
9. Write is the syntax of if..else statement
10. Write note on range () in loop.

III. ANSWER THE FOLLOWING:

3 X 5 = 15

36. What is Binary search? Discuss with example.
37. Explain input () and print () functions with examples.
38. Write a detail note on for loop.

**V.M.G.R.R SRI SARADA SAKTHI MAT. HR. SEC. SCHOOL****STD: XII - A****COMPUTER SCIENCE****UNIT TEST NO. 3****GROUP: B****PORTION: 2 MARKS - L. 7,8****MARKS: 70****I. CHOOSE THE BEST ANSWER:****30 x 1 = 35**

1. Which of the following is a distinct syntactic block?
a) Subroutines b) Function c) Definition d) Modules
2. Which of the following carries out the instructions defined in the interface?
a) Operating System b) Compiler c) Implementation d) Interpreter
3. The data structure which is a mutable ordered sequence of elements is called
a) Built in b) List c) Tuple d) Derived data
4. Bundling two The data structure which is a mutable ordered sequence of elements is called
a) Built in b) List c) Tuple d) Derived data
5. Which of the following is used in programming languages to map the variable and object?
a) :: b) := c) = d) ==
6. Which of the following members of a class can be handled only from within the class?
a) Public members b) Protected members c) Secured members d) Private members
7. Two main measures for the efficiency of an algorithm are
a) Processor and memory b) Complexity and capacity c) Time and space d) Data and space
8. The notation in asymptotic evaluation represents
a) Best case b) Average case c) Worst case d) Null face
9. Which of the following shortcut is used to create new Python Program?
a) Ctrl + C b) Ctrl + F c) Ctrl + B d) Ctrl + N
10. Which operator is also called as Comparative operator?
a) Arithmetic b) Relational c) Logical d) Assignment
11. What plays a vital role in Python programming?
a) Statements b) Control c) Structure d) Indentation
12. What is the output of the following snippet?
T=1
while T:
print(True)
break
a) False b) True c) 0 d) 1
13. Which function is called anonymous unnamed function?
a) Lambda b) Recursion c) Function d) define
14. Read the following statement and choose the correct statement (s).
(I) In Python, you don't have to mention the specific data types while defining function.
(II) Python keywords can be used as function name.
a) I is correct and II is wrong b) Both are correct
c) I is wrong and II is correct d) Both are wrong
15. Which of the following operator is used for concatenation?
a) + b) & c) * d) =
16. Which of the following formatting character is used to print exponential notation in upper case?
a) %e b) %E c) %g d) %n
17. Which of the following function is used to count the number of elements in a list?

- a) count() b) find() c) len() d) index()
18. What is the use of type() function in python?
a) To create a Tuple b) To know the type of an element in tuple.
c) To know the data type of python object d) To create a list
19. Class members are accessed through which operator?
a) & b) . c) # d) %
20. Which of the following is the output of the following program?
class Student:
def __init__(self, name):
self.name=name
S=Student("Tamil")
print(S.name)
a) Error b) Tamil c) name d) self
21. Which database model represent parent child relationship?
a) Relational b) Network c) Hierarchical d) Object
22. What symbol is used for SELECT statement?
a) σ b) Π c) X d) Ω
23. The command to delete a table is
a) DROP b) DELETE c) DELETE ALL d) ALTER TABLE
24. The clause used to sort data in a database
a) SORT BY b) ORDER BY c) GROUP BY d) SELECT
25. Which of the following module is provided by Python to do several operations on the CSV files?
a) py b) xls c) csv d) os
26. Which of the following creates an object which maps data to a dictionary?
a) listreader() b) reader() c) tuplereader() d) DictReader()
27. The expansion of API is
a) Application Programming Interpreter b) Application Programming Interface
c) Application Performing Interface d) Application Programming Interlink
28. Identify the function call statement in the following snippet.
if __name__ == '__main__':
main(sys.argv[1:])
a) main(sys.argv[1:]) b) __name__ c) __main__ d) argv
29. Which of the following is a control structure used to travels and fetch the records of the database?
a) Pointer b) Key c) Cursor d) Insertion point
30. Read the following code: Identify the purpose of this code and choose the right option from the following.
C:\Users\YourName\AppData\Local\Programs\Python\Python36-32\Scripts>pip-version
a) Check if PIP is Installed b) Install PIP c) Download a Package d) Check PIP version
31. Identify the impure function from the following.
a) sin() b) cos() c) strlen() d) random()
32. To facilitate data abstraction, we need to create __ function.
a) constructors b) selectors c) Both A and B d) Subroutines
33. Which of the following is not the example of modules?
a) procedures b) subroutines c) class d) functions
34. This is a theoretical performance analysis of an algorithm.
a) priori estimates b) posteriori testing c) space factor d) time factor
35. What will be the value of X from the following code snippet?
A, B = 10, 3
X = A if (A / B == 3) else B
print(x)
a) 3 b) 10 c) True d) False

1. What is function?
2. Write the different types of function.
3. What are the main advantages of function?
4. What is meant by scope of variable? Mention its types.
5. What is base condition in recursive function?
6. How to set the limit for recursive function? Give an example.
7. What is String?
8. Do you modify a string in Python?
9. How will you delete a string in Python?
10. What is slicing?

III. ANSWER THE FOLLOWING:

3 X 5 = 15

1. Explain the different types of function with an example.
2. Explain the following built-in functions.
a) id() b) chr() c) round() d) type() e) pow()
3. Explain about string operators in Python with suitable example.



V.M.G.R.R SRI SARADA SAKTHI MAT. HR. SEC. SCHOOL

STD: XII - A

COMPUTER SCIENCE

UNIT TEST NO. 4

PORTION: 2 MARKS - L. 9,10

MARKS: 70

I. CHOOSE THE BEST ANSWER:

35 x 1 = 35

- The variables in a function definition are called as _____.
a) Subroutines b) Function c) Definition d) Parameters
- The functions which will give exact result when same arguments are passed are called
a) Impure functions b) Partial Functions c) Dynamic Function d) Pure functions
- A sequence of immutable objects is called
a) Built in b) List c) Tuple d) Derived date
- Which of the following allows to name the various parts of a multi-item object?
a) Tuples b) Lists c) Classes d) quadrats
- Containers for mapping names of variables to objects is called
a) Scope b) Mapping c) Binding d) Namespaces
- Which members are accessible from outside the class?
a) Public members b) Protected members c) Secured members d) Private members
- The complexity e of linear search algorithm is
a) $O(n)$ b) $O(\log n)$ c) $O(n^2)$ d) $O(n \log n)$
- If a problem can be broken into sub problems which are reused several times , the problem possesses which property?
a) Overlapping subproblems b) Optimal substructure c) Memorization d) Greedy
- Which of the following character is used to give comments in Python Program?
a) # b) & c) @ d) \$
- Which of the following is not Logical operator?
a) and b) or c) not d) Assignment
- What is the output of the following snippet?
T=1
while T:
print(True)
break
a) False b) True c) 0 d) 1
- Pick the correct one to execute the given statement successfully.
if _____ : print(x, "is a leap year")
a) $x \% 2 = 0$ b) $x \% 4 == 0$ c) $x / 4 = 0$ d) $x \% 4 = 0$
- Defining strings within triple quotes allows creating:
a) Single line Strings b) Multiline Strings c) Double line Strings d) Multiple Strings
- Which of the following is used as placeholders or replacement fields which get replaced along with format() function?
a) { } b) < > c) + + d) ^^
- If List=[10,20,30,40,50] then List[2]=35 will result
a) [35,10,20,30,40,50] b) [10,20,30,40,50,35] c) [10,20,35,40,50] d) [10,35,30,40,50]
- Which of the following statement is not correct?
a) A list is mutable b) A tuple is immutable
c) The append() function is used to add an element
d) The extend() function is used in tuple to add elements in a list.
- Which of the following method is automatically executed when an object is created?
a) __object__() b) __del__() c) __func__() d) __init__()

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8. Which of the following is the private class variable?
a) __num b) ##num c) \$\$num d) &&num
19. Relational database model was first proposed by
a) EF Codd b) EE Codd c) EF Cadd d) EF Codder
20. A tuple is also known as
a) table b) row c) attribute d) field
21. Which of the following mode is used when dealing with non-text files like image or exe files?
a) Text mode b) Binary mode c) xls mode d) csv mode
22. Making some changes in the data of the existing file or adding more data is called
a) Editing b) Appending c) Modification d) Alteration
23. A framework for interfacing Python and C++ is
a) Ctypes b) SWIG c) Cython d) Boost
24. Which of the following can be used for processing text, numbers, images, and scientific data?
a) HTML b) C c) C++ d) PYTHON
25. Any changes made in the values of the record should be saved by the command
a) Save b) Save as c) Commit d) Oblige
26. The most commonly used statement in SQL is
a) cursor b) select c) execute d) commit
27. Read the following code: Identify the purpose of this code and choose the right option from the following.
C:\Users\YourName\AppData\Local\Programs\Python\Python36-32\Scripts>pip list
a) List installed packages b) list command c) Install PIP d) packages installed
28. Identify the right type of chart using the following hints.
Hint 1: This chart is often used to visualize a trend in data over intervals of time.
Hint 2: The line in this type of chart is often drawn chronologically.
a) Line chart b) Bar chart c) Pie chart d) Scatter plot
29. To install matplotlib, the following function will be typed in your command prompt.
What does "-U" represents? Python-m pip install -U pip
a) downloading pip to the latest version b) upgrading pip to the latest version
c) removing pip d) upgrading matplotlib to the latest, version
30. Which key is used to run the module?
a) F6 b) F4 c) F3 d) F5
31. Expand IDLE
a) Integrated Design Learning Environment b) Insert Development Learning Environment
c) Integrated Develop Learning Environment d) Integrated Development Learning Environment
32. Which is a compound structure which is made up of list or tuple?
a) Pair b) Concrete c) Classes d) quadrats
33. Which is a compound structure which is made up of list or tuple?
a) Pair b) Concrete c) Classes d) quadrats
33. The kind of scope of the variable 'a' used in the Pseudo code given below. (MQP – 19)
Disp ():
a:=7
print a
Disp ()
a) local b) global c) Enclosed d) Built – in
34. Which of the following algorithmic approach is similar to divide and conquer approach?
a) Insertion sorting b) Dynamic programming
c) selection searching d) Bubble programming
35. Which one of the following are a token?
a) Print () b) input () c) Literals d) Space

II. ANSWER THE FOLLOWING:

10 X 2 = 20

1. What is List in Python?
2. How will you access the list elements in reverse order?

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3. What will be the value of x in following python code?

```
List1 = [2,4,6,[1,3,5]]
```

```
X = len(List1)
```

4. Differentiate del with remove () function of List.

5. Write the syntax of creating a Tuple with n number of elements.

6. What is set in Python?

7. What is class?

8. What is instantiation?

9. How will you create constructor in Python?

10. What is the purpose of Destructor?

III. ANSWER THE FOLLOWING:

3 X 5 = 15

1. What are the different ways to insert an element in a list. Explain with suitable example.

2. Explain the different set operations supported by Python with suitable example.

3. Write a menu driven program to add or delete stationary items. You should use dictionary to store items and the brand.

**V.M.G.R.R SRI SARADA SAKTHI MAT. HR. SEC. SCHOOL****STD: XII****COMPUTER SCIENCE****UNIT TEST NO. 5****PORTION: 2 MARKS - L. 11, 12, 13****MARKS: 70****I. CHOOSE THE BEST ANSWER:****35 x 1 = 35**

1. The values which are passed to a function definition are called _____.
a) Arguments b) Subroutines c) Function d) Definition
2. The functions which cause side effects to the arguments passed are called _____.
a) impure function b) Partial Functions c) Dynamic Functions d) Pure functions
3. The data type whose representation is known are called
a) Built in datatype b) Derived datatype c) Concrete datatype d) Abstract data type
4. Which of the following is constructed by placing expressions within square brackets?
a) Tuples b) Lists c) Classes d) quadrats
5. Which scope refers to the variables defined in current function?
a) Local scope b) Global scope c) Module scope d) Function Scope
6. The members that are accessible from within the class and are also available to its subclasses is called _____.
a) Public members b) Protected members c) Secured members d) Private member
7. From the following sorting algorithms which has the lowest worst case complexity?
a) Bubble sort b) Quick sort c) Merge sort d) Selection sort
8. In dynamic programming, the technique of storing the previously calculated values is called?
a) Saving value property b) Storing value property c) Memorization d) Mapping
9. This symbol is used to print more than one item on a single line.
a) Semicolon (;) b) Dollor (\$) c) comma(,) d) Colon (:)
10. Which operator is also called as Conditional operator?
a) Ternary b) Relational c) Logical d) Assignment
11. The condition in the if statement should be in the form of
a) Arithmetic or Relational expression b) Arithmetic or Logical expression
c) Relational or Logical expression d) Arithmetic
12. Which punctuation should be used in the blank?
if <condition>_
statements-block 1
else:
statements-block 2
a) ; b) : c) : : d) !
13. Which of the following keyword is used to exit a function block?
a) define b) return c) finally d) def
14. Which of the following keyword is used to define the function testpython()?:
a) define b) pass c) def d) while
15. Strings in python:
a) Changeable b) Mutable c) Immutable d) flexible
16. The subscript of a string may be:
a) Positive b) Negative c) Both (a) and (b) d) Either (a) or (b)
17. What type of relationship does hierarchical model represents?
a) one-to-one b) one-to-many c) many-to-one d) many-to-many
18. Who developed ER model?
a) Chen b) EF Codd c) Chend d) Chand
19. The command used to skip a row in a CSV file is
a) next() b) skip() c) omit () d) bounce ()

20. Which of the following is a software design technique to split your code into separate parts?
 a) Object oriented Programming b) Modular programming
 c) Low Level Programming d) Procedure oriented Programming
21. Match the following:
 a) DELETE - (i) DDL
 b) DROP - (ii) DQL
 c) SELECT - (iii) TCL
 d) COMMIT - (iv) DML
 a) a-iv, b-iii, c- ii, d-i b) a-iv, b-i, c- ii, d-iii c) a-i, b-iv, c- iii, d-ii d) a-i, b-iii, c- iv, d-ii
22. What will be written inside the file test.csv using the following program?

```
import csv
D=[['Exam'],['Quarterly'],['Halfyearly']]
csv.register_dialect('M',lineterminator='\n')
with open('c:\pyprg\ch13\line2.csv','w') as f:
wr=csv.writer(f, dialect='M')
wr.writerows(D)
f.close()
```

 a) Exam Quarterly Halfyearly b) Exam Quarterly Halfyearly
 c) E d) Exam
 Q Quarterly,
 H Halfyearly
23. What does __name__ contains?
 a) c++ filename b) main() name c) python filename d) os module name
24. Which of the following execute their SQL command to perform some action?
 a) Execute () b) Key () c) Cursor d) run ()
25. Which of the following clause avoid the duplicate?
 a) Distinct b) Remove c) Where d) GroupBy
26. Read the statements given below. Identify the right option from the following for pie chart.
 Statement A: To make a pie chart with Matplotlib, we can use the plt. pie() function.
 Statement B: The autopct parameter allows us to display the percentage value using the Python string formatting .
 a) Statement A is correct b) Statement B is correct
 c) Both the statements are correct d) Both the statements are wrong
27. Which of the following is not a type of visualization under matplotlib?
 a) Histogram b) Pie chart c) Boxplot d) SQ Lite
28. To make a bar chart with Matplotlib, which function should be used? (MQP - 19)
 a) plt.bar () b) plt.chart () c) pip.bar () d) pip.chart ()
29. Which method uses the SQL command to get all the data from the table? (PTA - 2)
 a) get b) select c) execute d) Query
30. The file extension of Excel :
 a) exl b) xls c) cel d) Ecl
31. The _____ method writes one row at a time.
 a) writerows () b) wrightrows () c) insertrow () d) None of these
32. Which of the following functions that build the abstract data type?
 a) Constructors b) Destructors c) recursive d) nested
33. A variable which is declared inside a function which contains another function definition.
 a) Local b) global c) enclosed d) built in
34. What will be the output. (PTA - 3)

```
a = 5
while(a <= 20):
print (a%a, end = ' ')
i= i+1
```

 a) 15 16 17 18 19 20 b) 20 19 18 17 16 15 c) 0 0 0 0 0 0 d) 1 1 1 1 1 1
35. Which of the following is Not a Python module?

II. ANSWER THE FOLLOWING:

10 X 2 = 20

1. Mention few examples of a database.
2. What is data consistency?
3. What is normalization?
4. Differentiate Unique and Primary Key constraint.
5. Write the difference between table constraint and column constraint?
6. What is the difference between SQL and MySQL?
7. What is CSV File?
8. Mention the two ways to read a CSV file using Python.
9. What is use of next () function?
10. How will you sort more than one column from a CSV file? Give an example statement.

II. ANSWER THE FOLLOWING:

3 X 5 = 15

1. Differentiate DBMS and RDBMS.
2. Write the different types of constraints and their functions.
3. Write the different methods to read a File in Python.

**V.M.G.R.R SRI SARADA SAKTHI MAT. HR. SEC. SCHOOL****STD: XII - A****COMPUTER SCIENCE****UNIT TEST NO. 6****PORTION: 2 MARKS - L. 15,16****MARKS: 70****I. CHOOSE THE BEST ANSWER:****35 x 1 = 35**

1. Which of the following is a distinct syntactic block?
a) Subroutines b) Function c) Definition d) Modules
2. Which of the following carries out the instructions defined in the interface?
a) Operating System b) Compiler c) Implementation d) Interpreter
3. A sequence of immutable objects is called
a) Built in b) List c) Tuple d) Derived data
4. Bundling two values together into one can be considered as
a) Pair b) Triplet c) single d) quadrat
5. The process of binding a variable name with an object is called
a) Scope b) Mapping c) late binding d) early binding
6. Which of the following members of a class can be handled only from within the class?
a) Public members b) Protected members c) Secured members d) Private members
7. The complexity of linear search algorithm is
a) $O(n)$ b) $O(\log n)$ c) $O(n^2)$ d) $O(n \log n)$
8. The notation in asymptotic evaluation represents
a) Best case b) Average case c) Worst case d) Null face
9. The notation in asymptotic evaluation represents
a) Best case b) Average case c) Worst case d) Null face
10. Which operator is also called as Conditional operator?
a) Ternary b) Relational c) Logical d) Assignment
11. What plays a vital role in Python programming?
a) Statements b) Control c) Structure d) Indentation
12. Which amongst this is not a jump statement?
a) for b) pass c) continue d) break
13. Which of the following keyword is used to begin the function block?
a) define b) for c) finally d) def
14. In which arguments the correct positional order is passed to a function?
a) Required b) Keyword c) Default d) Variable - length
15. Which of the following operator is used for concatenation?
a) + b) & c) * d) =
16. Which of the following formatting character is used to print exponential notation in upper case?
a) %e b) %E c) %g d) %n
17. Which of the following function is used to count the number of elements in a list?
a) count() b) find() c) len() d) index()
18. What is the use of type() function in python?
a) To create a Tuple b) To know the type of an element in tuple.
c) To know the data type of python object d) To create a list
19. Class members are accessed through which operator?
a) & b) . c) # d) %
20. The process of creating an object is called as:
a) Constructor b) Destructor c) Initialize d) Instantiation

21. What is the acronym of DBMS?
a) DataBase Management Symbol b) DataBase Managing System
c) DataBase Management System d) DataBasic Management System
22. What symbol is used for SELECT statement?
a) σ b) Π c) \times d) Ω
23. Which commands provide definitions for creating table structure, deleting relations , and modifying relation schemas.
a) DDL b) DML c) DCL d) DQL
24. Queries can be generated using
a) SELECT b) ORDER BY c) MODIFY d) ALTER
25. The expansion of CRLF is
a) Control Return and Line Feed b) Carriage Return and Form Feed
c) Control Router and Line Feed d) Carriage Return and Line Feed
26. Which of the following creates an object which maps data to a dictionary?
a) listreader() b) reader() c) tuplereader() d) DictReader ()
27. Importing C++ program in a Python program is called
a) wrapping b) Downloading c) Interconnecting d) Parsing
28. getopt() will return an empty array if there is no error in splitting strings to
a) argv variable b) opt variable c) args variable d) ifile variable
29. Which of the following is an organized collection of data?
a) Database b) DBMS c) Information d) Records
30. Identify the package manager for Python packages, or modules.
a) Matplotlib b) PIP c) plt.show() d) python package
31. The _____ method is used to fetch all rows from the database table.
a) fetchall () b) fetch () c) fetchmany () d) None of these
- 32.. Which program can interact as a user of an SQL database?
a) C b) C++ c) Python d) DBMS
33. Which of the following are the aggregate functions?
a) COUNT b) MAX and MIN c) SUM and AVG d) All the above
34. Which button allows will to save figure in various forms?
a) Home b) Pan c) Zoom d) Save Figure
35. Which type of charts is a circular graphic which is divided into slices to numerical proportion?
a) Line b) Bar c) Pie d) Histograms

II. ANSWER THE FOLLOWING:

10 X 2 = 20

1. Mention the users who use the Database.
2. Which method is used to connect a database? Give an example.
3. What is the advantage of declaring a column as "INTEGER PRIMARY KEY ".
4. Write the command to populate record in a table. Give an example.
5. Which method is used to fetch all rows from the database table?
6. Define Data Visualization.
7. List the general types of data visualization. General types of Data Visualization.
8. List the types of Visualizations in Matplotlib.
9. How will you install Matplotlib?
10. Write the difference between the following functions:

plt.plot([1,2,3,4]), plt. plot([1,2,3,4],[1,4,9,16])

III. ANSWER THE FOLLOWING:

3 X 5 = 15

1. Write in brief about SQLite and the steps used to use it.
2. Explain in detail the types of pyplots using Matplotlib.
3. Explain the various buttons in matplotlib window.

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